41.		2009/03/20 : CIA-RDP82-0045	57R010300260002-1 R <b>EPO</b> RT	25 <b>X</b> 1
1 '	MFORM	ATION REPORT	OD NO	
	iga Banggag — moreg and areg∤	CONFIDENTIAL	20 FEB	52
subJE(	Diamond rollishing and Fork Jena	ng of leiss	WO OF PAULS 2	
PLACE ACQUIRED			NO. OF ENCLS 1	
DATE OF			SUPPLEMENT TO REPORT NO.	25 <b>X</b> 1
, , , , , , , , , , , , , , , , , , ,				
THIS DOCUMENT (OF THE UNITED S	Outside like the precision of the national disease these within the marking of the 30 cocions 79	31 31 32		25X1
ATION OF ITS CO	TYPES WITHIN THE MEANING OF THILE DU SECTIONS TO SCORE, AS AMERICADE THE STRANSMISSION OR REVI- MERTS TO OR RECEIVE BY AN UNLAWYOR MY PERSON AW "HE RE-RODUCTION OF THIS FORE I PROMINENT	DM E/A	VALUATED INFORMATION	
	subordinate. Aside from Warrained male mechanics in personnel are women who reoperate the mechines. Untemployed about 600 persons dies came to a virtual staof ther were transferred to 1941, when a large Soviet transferred back to the ditte entire space of the Zeromannel.	this section. However, equire approximately one till early in 1951, the Zes. Then, early in 1951, andstill, those employees to other sections of the order for diamond dies viemond die section which,	the majority of diamond week of training to lear size Jena's production of diamond are servere not dismissed, but Zeiss plant. In late Sewas received, these persons	boring on to etion amond t most eptember ons were
2.	The diamond boring machine artisan fnu Weiss in 1948 in the Zeiss plant at that Soviet Union. The machine could be much improved by,	8, and $1$ ,000 to $1$ ,200 of time. One-half of these are quite maintive in	these machines were conse machines were shipped a design and their efficient	structed to the lency
3.	The diamonds are first polynetal arm in which the diamonds are first polynetal arm in which the diamond a rotating metal platon a metal base and active A steel sewing machine he 6,000 rpm. The diamond stat the end of the other stalight eccentric motion, and each bench is service machine inspects the stone diamond is being bored at	amond is set in the lower te. The boring machine ated by pulleys which are adle is mounted on one sit tone is mounted in a put thaft, moving slowly in the About ten of these mached d by one electric motor. It from time to time, in the proper angle; for the	r part of the arm's end, consists of two shafts me attached to an electrimaft which rotates at a ty-like (Kittertig) substances are mounted on one. The woman operating thorder to make sure that his inspection, sho uses	mounted cunted cunted cunted cunted cunted cunted cunted cunter cunted c
•	microscope with hairline six risutes and the meddle consisting of clive oil at operate all the machines into a fine boring section	graduation. The machine e is rubbed with a piece nd diemond bort. If the (about 10) on one bench.	is stopped approximatel of cotton scaked in a 1 operator is adroit, she The diamond die shop i	y every ubricant can
YEAR R	E-REVIEW	CONFIDENTIAL		
STATE ARMY	CLASSIFICATION  NAVY NSRB  AIR FBI	DISTRIBUTION		
- Manuel	Document NoD No Change In Class Declassified	6		
	Class. Changed To: TS Auth.: HR 70-2 75% 5	N		2

25X1



CENTRAL INTELLIGENCE AGENCY

25**X**1

- 2 -

25X1

Corment: For a rough sketch of the nolishing device and of the diamond boring machine in use at leiss Jena, see attachment.

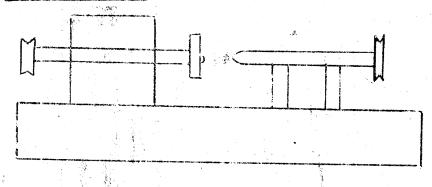
CONFIDENTIAL

CENTRAL INTELLIGENCE AGENCY

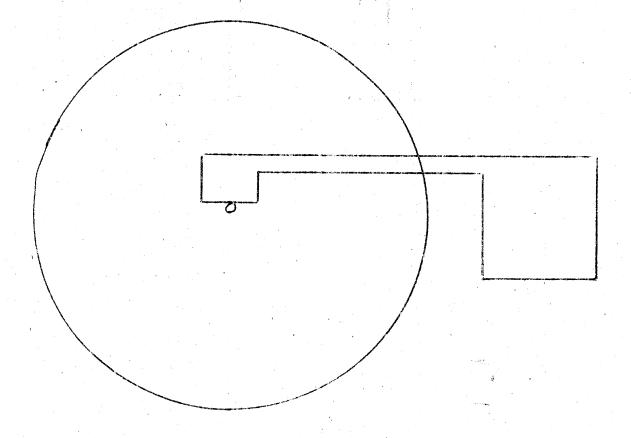
ATTACHIENT

25**X**1

## Diamond Boring Machine



## Diamond Polishing Machine



## Confidential